

Lucas Nascimento Machado

2440 173rd Street, Griffin Hall 402C • Hammond, IN 46323

Cell Phone (317) 893-6225 - lnascime@purduecal.edu

EDUCATION

Purdue University Calumet, Hammond, IN

One-year Exchange Program Bachelor of Science in Physics

GPA: 3.6/4.0 – Certificate in recognition of Outstanding Academic Achievement

Federal University of Minas Gerais (UFMG), Brazil

Bachelor of Science in Physics

Expected Graduation Date: August 2015

State University of Campinas (Unicamp), Brazil

Started Bachelor of Science in Physics/Mathematics/Applied and Computational Mathematics in February 2011

Transferred to Federal University of Minas Gerais in March 2012

Relevant Courses

Intellectual Property, Innovation and Entrepreneurship, Numerical Methods, Renewable Energy Systems, Introduction to Biomedical Imaging, Astronomy, Nuclear and Particle Physics, Electromagnetism, Quantum Physics I and II, Thermodynamics, Mechanics I and II, Matter Structure I and II

Languages

Portuguese (Native)

English (Fluent)

Skills

Familiar with installation, operation, repair and maintenance of laboratory components

Programming in C, MATLAB, and TfrReg

Directed major to Biomedical area (Congresses: Medical Physics Congress at Unicamp and Applied Physics to Medicine Congress at Unesp)

EXPERIENCE

Brazilian Student Organization - July 2014 to Present

Member and founder of the first organization of Brazilian students at Purdue University Calumet.

Colégio Frei Orlando (School), Belo Horizonte, Minas Gerais - Brazil April 2012 to December 2013

Teacher Assistant

- *Tutored High School students in Physics.*
- *Participated in the creation of the school Physics' lab.*
- *Developed activities and lessons to help students that struggled in Physics*

SCIENCE RESEARCH / ACADEMIC PROJECTS

High Energy Physics Research (Purdue University Calumet) - January 2015 to Present

Research instructed by Dr. Neeti Parashar at Fermi National Accelerator Laboratory (Fermilab) in the current semester.

Energy Systems Research (Purdue University Calumet) - September 2014 to December 2014

Research instructed by Dr. Robert Kramer at Purdue University Calumet about bioenergy.

Computational Biophysics Laboratory (Federal University of Minas Gerais, Brazil) - April 2014 to June 2014

Program of Scientific Initiation in Mesoscopic models of DNA and RNA: Project to create a model of biochemical parameters of DNA and RNA bonding potential energy.

Basic Physics Laboratories (Federal University of Minas Gerais, Brazil) - April 2013 to June 2014

Tutoring Program for Undergraduate: Project to encourage students to learn how to teach in physics laboratories, preparing classes and helping groups of students to work in their experiments during the class.